



May 10, 2016

Meagan E. Ormand Golder Associates Inc. 2108 W. Laburnum Ave. Suite 200 Richmond, VA 23227

RE: Project: BREMO MONTHLY PROCESS

Pace Project No.: 92296825

Dear Meagan Ormand:

Enclosed are the analytical results for sample(s) received by the laboratory on May 09, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nicole Gasiorowski

Micolo Yasiorovske

nicole.gasiorowski@pacelabs.com

Project Manager

Enclosures





Huntersville, NC 28078 (704)875-9092

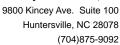


May 10, 2016 Page 2

cc: Ron DiFrancesco, Golder Associates Inc. Martha Smith, Golder Associates Inc. Mike Williams, Golder Associates Inc



REPORT OF LABORATORY ANALYSIS





CERTIFICATIONS

Project: **BREMO MONTHLY PROCESS**

Pace Project No.: 92296825

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174

Alabama Certification #: 41320 Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

Florida Certification #: E83079 Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383

Louisiana Certification #: FL NELAC Reciprocity Louisiana Environmental Certificate #: 05007

Maryland Certification: #346 Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236 Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14 Nevada Certification: FL NELAC Reciprocity

New York Certification #: 11608

North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710 North Dakota Certification #: R-216 Oklahoma Certification #: D9947 Pennsylvania Certification #: 68-00547 Puerto Rico Certification #: FL01264 South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity

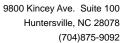
US Virgin Islands Certification: FL NELAC Reciprocity

Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity

West Virginia Certification #: 9962C Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

REPORT OF LABORATORY ANALYSIS





SAMPLE ANALYTE COUNT

Project: BREMO MONTHLY PROCESS

Pace Project No.: 92296825

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92296825001	T4-160507-1331-S3	EPA 200.7	CKJ	8	PASI-O

REPORT OF LABORATORY ANALYSIS

(704)875-9092



PROJECT NARRATIVE

Project: BREMO MONTHLY PROCESS

Pace Project No.: 92296825

Method: EPA 200.7
Description: 200.7 MET ICP

Client: Golder_Dominion_Bremo

Date: May 10, 2016

General Information:

1 sample was analyzed for EPA 200.7. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

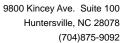
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.





ANALYTICAL RESULTS

Project: BREMO MONTHLY PROCESS

Pace Project No.: 92296825

Date: 05/10/2016 05:32 PM

Sample: T4-160507-1331-S3	Lab ID: 9229	6825001	Collected: 05/07/1	16 13:3	1 Received: 05	5/09/16 13:25 I	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Meth	od: EPA 20	0.7 Preparation Met	thod: El	PA 200.7			
Aluminum	1850	ug/L	100	1	05/10/16 12:33	05/10/16 16:37	7429-90-5	
Barium	222	ug/L	10.0	1	05/10/16 12:33	05/10/16 16:37	7440-39-3	
Beryllium	ND	ug/L	1.0	1	05/10/16 12:33	05/10/16 16:37	7440-41-7	
Boron	544	ug/L	50.0	1	05/10/16 12:33	05/10/16 16:37	7440-42-8	
Cobalt	ND	ug/L	10.0	1	05/10/16 12:33	05/10/16 16:37	7440-48-4	
Iron	ND	ug/L	250	1	05/10/16 12:33	05/10/16 16:37	7439-89-6	
Molybdenum	225	ug/L	10.0	1	05/10/16 12:33	05/10/16 16:37	7439-98-7	
Vanadium	21.3	ug/L	10.0	1	05/10/16 12:33	05/10/16 16:37	7440-62-2	



QUALITY CONTROL DATA

Project: BREMO MONTHLY PROCESS

Pace Project No.: 92296825

Date: 05/10/2016 05:32 PM

QC Batch: MPRP/30304 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 MET

Associated Lab Samples: 92296825001

METHOD BLANK: 1567733 Matrix: Water

Associated Lab Samples: 92296825001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	100	05/10/16 15:56	
Barium	ug/L	ND	10.0	05/10/16 15:56	
Beryllium	ug/L	ND	1.0	05/10/16 15:56	
Boron	ug/L	ND	50.0	05/10/16 15:56	
Cobalt	ug/L	ND	10.0	05/10/16 15:56	
Iron	ug/L	ND	250	05/10/16 15:56	
Molybdenum	ug/L	ND	10.0	05/10/16 15:56	
Vanadium	ug/L	ND	10.0	05/10/16 15:56	

LABORATORY CONTROL SAMPLE:	1567734					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Aluminum	ug/L	2500	2450	98	85-115	
Barium	ug/L	250	243	97	85-115	
Beryllium	ug/L	25	25.3	101	85-115	
Boron	ug/L	2500	2410	96	85-115	
Cobalt	ug/L	250	257	103	85-115	
Iron	ug/L	2500	2400	96	85-115	
Molybdenum	ug/L	250	253	101	85-115	
Vanadium	ua/L	250	242	97	85-115	

	922	296823001	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	Qual
Aluminum	ug/L	273	2500	2500	2810	2740	101	99	70-130		
Barium	ug/L	186	250	250	440	432	101	98	70-130	2	
Beryllium	ug/L	ND	25	25	26.4	26.2	106	105	70-130	1	
Boron	ug/L	420	2500	2500	2950	2910	101	100	70-130	1	
Cobalt	ug/L	ND	250	250	262	258	105	103	70-130	2	
ron	ug/L	ND	2500	2500	2490	2420	99	97	70-130	2	
Molybdenum	ug/L	142	250	250	404	397	105	102	70-130	2	
Vanadium	ug/L	17.9	250	250	273	269	102	100	70-130	2	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..



QUALIFIERS

Project: BREMO MONTHLY PROCESS

Pace Project No.: 92296825

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

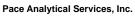
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

Date: 05/10/2016 05:32 PM

PASI-O Pace Analytical Services - Ormond Beach





9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BREMO MONTHLY PROCESS

Pace Project No.: 92296825

Date: 05/10/2016 05:32 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92296825001	T4-160507-1331-S3	EPA 200.7	MPRP/30304	EPA 200.7	ICP/18114

ace Analytical *

Document Name:

Sample Condition Upon Receipt(SCUR)

Document No.:

Document Revised: 26FEB2016

Page 1 of 2

Issuing Authority:

F-MEC-CS-009-rev.02 Pace Mechanicsville Quality Office Page 2 of 2 for Internal Use ONLY Sample Condition Upon Client Name: WO#:92296825 Receipt Project #: Courier: Commer cial Other:

Custody Seal Present? Yes No Seal	s Intact?	N.	'es	Пио	
Thermometer: RMD001 Corrected (°C) Temp should be above freezing to 6°C		of Ice:	Non ∉ √ Wet	☐Oth ☐Blue	Date/Initials Person Examining Contents 5 - 9 - 16 ner: None
USDA Regulated Soil (N/A, water sample) Did samples or ginate in a quarantine zone within the Unite	d States: C	A, NY, or	SC (check	(maps)?	Did samples originate from a foreign source (internationally,
Yes No					including Hawaii and Puerto Rico)? Yes No
Chain of Custo dy Present?				 	COMMENTS:
Chain of Custo dy Filled Out?	Yes	□No	□N/A	1.	
	Yes	□No	□N/A	2.	
Chain of Custody Relinquished?	¥Yes	□No	□N/A	3.	
Sampler Name and/or Signature on COC?	✓Yes	□No	□N/A	4.	
Samples Arrived within Hold Time?	Yes	□No	□N/A	5.	
Short Hold Time Analysis (<72 hr)?	Yes	No	□N/A	6.	
Rush Turn Around Time Requested?	Yes	□No	□N/A	7.	
Sufficient Volume?	Yes	□No	□N/A	8.	
Correct Containers Used?	Yes	□No	□N/A	9.	
-Pace Containers Used?	Yes	□No	□N/A		
Containers Intact?	Yes	□No	□N/A	10.	
Filtered Volume Received for Dissolved Tests?	Yes	□No	N/A		sto if codiment is visible in the Unit of the
Sample Labels Match COC?	Yes	□No	0.22220		ote if sediment is visible in the dissolved container
-Includes Date/Time/ID/Analysis Matrix:	[v] res	Пио	□n/a	12.	
All containers needing acid/base preservation have been					
checked?	Yes	□No	□N/A	13.	
All containers needing preservation are found to be in compliance with EPA recommendation?					
(HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	MYes	Пио	□N/A		
Exceptions: VOA, Coliform, TOC, Oil and Grease,	[4] (63		LIN/A		
DRO/8015 (water) DOC,LLHg	Yes	□No	□N/A		
Samples checked for dechlorination	Yes	□No	MN/A	14.	
Headspace in VOA Vials (>5-6mm)?	□Yes	□No	DN/A	15.	
Trip Blank Present?	□Yes	□No	DN/A	16.	
Trip Blank Custody Seals Present?	□Yes	□No	₩/A		
Pace Trip Blank Lot # (if purchased):					
CLIENT NOTIFICATION/RESOLUTION					Field Data Required? Yes No
Person Contacted:			¥1:	Date/	Time:

Comments/Resolution: Project Manager SCURF Review: Date: NWG Project Manager SRF Review:

Date: Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers)



				12/19/2008	All analyses		12	11	10	9	8	7	6	51	4	w	2	-	ITEM#	אַנּגַ		Requested	Phone: 8	Email To:		Address:	Company:	Section A Required C	
				۵	All analyses to be performed under Golder-Pace MSA dated	ADDITIONAL COMMENTS												T4-160507-1331-5	SAMPLE ID SAMPLE ID WASTE WATER PRODUCT SOLUSOLID OIL (A-Z, 0-9/) Sample IDs MUST BE UNIQUE TISSUE	Section D Valid M Required Client Information MATRIX		Requested Due Date/TAT: 24 HOUR		Mormand@golder.com	Richmond, VA 23227	2108 W Laburnum Ave, Ste 200	Golder Associates	Section A Required Client Information:	
			And			BELING												WW 6	MATRIX CODE (see valid codes SAMPLE TYPE (G=GRAB C=C)	atrix Codes CODE to left)		Project Number: 15	Project Name:	Purchase Order No.:	Ron_D	Copy To: Martha	Report To: Mormand@golder.com	Section B Required Project Information:	
		SAMPLE	8		() / / Co	RELINQUISHED BY / AFFICIATION												4 :	COMPOSITE START			1520-347: 220 200	Bremo Monthly Compliance		Ron_Difrancesco@golder.com	Martha_Smith@golder.com	nd@golder.com	ormation:	
SIGNATURE of SAMPLER:	PRINT Name of SAMPLER:	SAMPLER NAME AND SIGNATURE	Cholder States	1/1/6	() ()	ON DATE											-	51716 13:31	COMPOSITE END/GRAB	COLLECTED			iance Process		com				
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1	D Mary of		X	Robert	4	ACCEPTED												×	HCI NaOH Na ₂ S ₂ O ₃ Methanol Other	Preservatives					gaiapdataentry_invoid	Golder Associates	Meagan Ormand	r.	
(MM/DD/YY):	DATE Circulation					BY / AFFILIATION												_	♣ Analysis Test 200.7 - Al, Ba, Be, B, Co 200.7 - Fe, Mo, V ASTM4282 - Free Cyanid	Y/N	1				ntry_invoices@golder.com				
17/16			3-9-16	1 11/1/	1	DATE															Requested Analysis Filtered	STATE:	Site Location	□ UST □	NPDES	REGULATORY AGENCY			
			13.20	5.4.7	1	TIME															(Y/N)		VA	RCRA	GROUND WATER	AGENCY		Page:	
	emp in seceived				$\frac{1}{2}$													z	Residual Chlorine (Y/N)) WATER	10 TAN 8 A			
Cus	ce (Y/N tody Se) aled				SAMPLE CONDITIONS													92296825					OTHER	DRINKING WATER			/ of /	
Sar	nples In (Y/N)	tact				SNC												00	,625							00	16	n z ^P ź	ige



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

ANALYTICAL RESULTS

Prepared by:

Prepared for:

Eurofins Lancaster Laboratories Environmental 2425 New Holland Pike Lancaster, PA 17601 Pace Analytical Services Suite 100 9800 Kincey Ave Huntersville NC 28078

Report Date: May 10, 2016

Project: 92296825

Submittal Date: 05/10/2016 Group Number: 1658785 PO Number: NMG 14710 State of Sample Origin: VA

Client Sample Description T4-160507-1331-S3 Water Lancaster Labs
(LL) #
8371621

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/.

Electronic Copy To Pace Analytical Services Attn: Nicole Gasiorowski

Respectfully Submitted,

Bonnie Stadelmann Senior Project Manager

Bornie Stadelmann

(312) 590-3133



Lancaster Laboratories Environmental

Analysis Report

Account

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: T4-160507-1331-S3 Water

92296825001

92296825

Project Name: 92296825

Collected: 05/07/2016 13:31 Pace Analytical Services

Suite 100

9800 Kincey Ave

Huntersville NC 28078

Reported: 05/10/2016 16:08

Submitted: 05/10/2016 09:20

CAT Analysis Name No.

CAS Number

Result

mg/l

Limit of

Dilution

Factor Quantitation

Wet Chemistry 12941 Free Cyanide OIA-1677-09

n.a.

< 10.0

ma/110.0

1

LL Sample # WW 8371621

10945

LL Group # 1658785

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT Analysis Name No.

Method

Trial# Batch#

Analysis

Analyst

Dilution

12941 Free Cyanide

OIA-1677-09

16131941101A

Date and Time 05/10/2016 14:38

Brianna A White

Factor



Lancaster Laboratories Environmental

Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Quality Control Summary

Client Name: Pace Analytical Services Group Number: 1658785

Reported: 05/10/2016 16:08

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name Result LOQ mg/l
Batch number: 16131941101A Sample number(s): 8371621
Free Cyanide < 10.0 10.0

LCS/LCSD

Analysis Name	LCS Spike Added mg/l	LCS Conc mg/l	LCSD Spike Added mg/l	LCSD Conc mg/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 16131941101A Free Cyanide	Sample number	r(s): 8371 0.0376	621		94		86-132		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc mg/l	MS Spike Added mg/l	MS Conc mg/l	MSD Spike Added mg/l	MSD Conc mg/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16131941101A Free Cyanide	Sample numb < 0.0060	er(s): 8371 0.0200	.621 UNSP 0.0178	K: P364773 0.0200	0.0166	89	83*	86-132	7*	3

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

^{*-} Outside of specification

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The unspiked result was more than four times the spike added.





Work	orde	: 92296825	Workorder N	ame:	BRE	мо мо	NTHLY P	ROCE	ss			Res	sults	Req	uest	ed	5/1	0/20	16					
Repor	t / Invo	ice To	1	Subcon	tract To					425 SH					Red	queste	d Ana	ilysis					0.0000	20.4
Pace 9800 Hunte Phone	Analyti Kincey rsville, e (704)	orowski cal Charlotte Ave. Suite 100 NC 28078 875-9092 e.gaslorowski@pacelab	7.4 e com	125 1	New t	lollar	n p.o algorat d pike 7601	<u></u>	7 L			Cyanide	A-1677											
			Collect					Age II				1,5%	10											
Item	Samp	le ID	Date/Time)	Lab ID	- 10 E	Matrix	131			1	17							- 1				LAB U	SE ONLY
1	T4-160)507 -13 31-S3	5/7/2016	3:31	9229682	25001	Water	2				Х												
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Monday, May 09, 2016 2:52:20 PM

FMT-ALL-C-002rev.00 24March2009

Page 1 of 1



Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID:

145885

Group Number(s):

1658785

Client: Pace Analytical

Delivery and Receipt Information

Delivery Method:

Fed Ex

Arrival Timestamp:

05/10/2016 9:20

Number of Packages:

1

Number of Projects:

1

Arrival Condition Summary

Shipping Container Sealed:

Yes

Sample IDs on COC match Containers:

Yes

Custody Seal Present:

No

Sample Date/Times match COC:

Yes

Samples Chilled:

Yes

VOA Vial Headspace ≥ 6mm:

N/A

Paperwork Enclosed:

Yes

Total Trip Blank Qty:

0

Samples Intact:

Yes

Air Quality Samples Present:

No

Missing Samples:

No

Extra Samples:

No

Discrepancy in Container Qty on COC:

No

Unpacked by Timothy Cubberley (6520) at 09:29 on 05/10/2016

Samples Chilled Details

Thermometer Types:

DT = Digital (Temp. Bottle)

IR = Infrared (Surface Temp)

All Temperatures in °C.

Thermometer ID 32170023

Corrected Temp

Therm, Type

Ice Type

Ice Present?

Ice Container

Elevated Temp?

0.9

IR

Wet

Υ

Loose

N



Lancaster Laboratories Environmental

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL N.D.	Reporting Limit none detected	BMQL MPN	Below Minimum Quantitation Level Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
С	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
μg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	μL	microliter(s)
		pg/L	picogram/liter

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an

as-received basis.

Laboratory Data Qualifiers:

B - Analyte detected in the blank

C - Result confirmed by reanalysis

E - Concentration exceeds the calibration range

J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)

P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.

U - Analyte was not detected at the value indicated

V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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